

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 01153507  
PUBLICATION DATE : 15-06-89

APPLICATION DATE : 09-12-87  
APPLICATION NUMBER : 62311610

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INT.CL. : C01B 13/14 H01B 13/00 H01L 39/24

TITLE : METHOD FOR PROTECTING OXIDE SUPERCONDUCTOR

ABSTRACT : PURPOSE: To readily prevent deterioration of a superconductor at a low cost by dipping or impregnating an oxide superconductor with a specific hydrophobic liquid organic substance.

CONSTITUTION: An oxide superconductor, such as an Ln-A-Cu-O based superconductor (Ln is trivalent rare earth element; A is alkaline earth metal), is dipped or impregnated with a hydrophobic organic substance (e.g., di chloroethane), unreactive with the oxide superconductor without causing volume expansion in cooling below the freezing point. The surface of the superconductor is then coated with a resin, etc., and hermetically sealed.

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